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L3: Entry 1 of 33   File: USPT   Aug 9, 2005

US-PAT-NO: 6928393
DOCUMENT-IDENTIFIER: US 6928393 B2

TITLE: Method and system for supporting negative testing in combinatorial test case
generators

DATE-ISSUED: August 9, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Czerwonka; Jacek A.	Redmond	WA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Microsoft Corporation	Redmond	WA			02

APPL-NO: 10/ 464986   [PALM]
DATE FILED: June 18, 2003

INT-CL: [07] G06F01136

US-CL-ISSUED: 702/186; 702/119, 702/120, 702/124, 714/38, 703/22, 717/124
US-CL-CURRENT: 702/186; 702/119, 702/120, 702/124, 703/22, 714/38, 717/124

FIELD-OF-SEARCH: 702/186, 702/119, 702/120, 702/123, 702/182, 702/183, 702/185,
702/108, 717/124, 717/126-128, 717/131, 717/132, 717/135, 714/38, 714/47, 714/48,
712/227, 703/22

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	5784553	July 1998	Kolawa et al.	714/38
☐	5812436	September 1998	Desgrousilliers et al.	702/108
☐	6321376	November 2001	Willis et al.	717/124

ART-UNIT: 2857

PRIMARY-EXAMINER: Wachsman; Hal

ATTY-AGENT-FIRM: Law Offices of Albert S. Michalik, PLLC

ABSTRACT:

Provided is a system and method for black-box testing of software using positive
and negative test cases with N-way combinations of parameter values. An original
model comprising valid and invalid values is modified in a first phase, by
generating exclusions (constraints) for pairs of invalid values. A first suite of
test cases is generated from the modified model, and positive test cases
eliminated, creating a first test suite with only negative tests. In a second
phase, the original model is modified by eliminating invalid values, from which a
second test suite having only positive test cases for all valid N-way combinations
is generated. Merging the two test suites provides a suite of positive and negative
test cases that test software with N-way combinations of values, in which each
negative test case has only one invalid value.

20 Claims, 13 Drawing figures